

88-116706/17 LION CORP. 05.09.86-JP-208969-(22.03.88) C11d-01/72 C11d-07/50 C11d-10/12	E19 G04 LIOY 05.09.86 J6 3063-799-A	E(5-B, 5-G9D, 10-A9B7, 10-A9B8, 10-C4C, 10-C4L, 10-E4K, 10-E4M3) G(4-B8)
Emulsifier compsn. for dry-cleaning solvent - comprises polyoxyethylene nonionic activator and e.g. carboxylic acid cpds. for highly stable water emulsion C 88-052625		
A new emulsifier compsn. for dry-cleaning solvents contains (A) 5-70 wt. % of a nonionic activator of formula (I) and (B) one or more cpds. of formulae (II) to (V) with a (B)/(A) ratio of 0.05-0.7.		
$R_1-O-\overset{R_2}{\underset{ }{\text{CH}_2\text{CHO}}}-H$ (I)		
$R_3-COO-(\text{CH}_2\text{CHO})_{n_2}-H$ (II)		
R_5-COOM_1 (III)	$R_6-X-SO_3M_2$ (IV)	R_7
<p>$R_1 = 8-20C$ alkyl or alkenyl gp., or $(8-20C$ alkyl gp.)-substd. phenyl gp.; $n_1 = 2-20$;</p> <p>$R_3 = H$ or CH_3; $R_4 = H$ or CH_3, $R_5 = 8-20C$ alkyl or alkenyl or $(8-20C$ alkyl)-substd. phenyl,</p> <p>$M_1 = \text{Ca}, \text{Al}$ or Mg.</p> <p>$X = (i)$ or (ii).</p> <p>$R_6, R_7 = H$ or $8-22C$ alkyl or alkenyl (they may be same of different but they are not both II)</p> <p>$M_2 = \text{alkali(ne earth) metal},$ $R_8 = 8-20C$ alkyl or alkenyl,</p> <p>$n_2 = 0-10;$ $X_1, Y = OM_1$ or $-(\text{OCH}_2\text{CH}_2)_n_1-\text{OR}_8$ and $M_2 = \text{H}$ or alkali(ne earth) metal.</p>		

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$R_1 = H$ or CH_3 ;
 $R_3 = 8-20C$ alkyl or alkenyl gp., or $8-20C$ alkyl or alkenyl gp., or $(8-20C$ alkyl gp.)-substd. phenyl gp.;

$n_1 = 2-20$

$R_4 = H$ or CH_3 ,

$R_5 = 8-20C$ alkyl or alkenyl or $(8-20C$ alkyl)-substd. phenyl,

$M_1 = \text{Ca}, \text{Al}$ or Mg .

$X = (i)$ or (ii) .

$R_6, R_7 = H$ or $8-22C$ alkyl or alkenyl (they may be same of different but they are not both II)

$M_2 = \text{alkali(ne earth) metal},$
 $R_8 = 8-20C$ alkyl or alkenyl,

$n_2 = 0-10;$
 $X_1, Y = OM_1$ or $-(\text{OCH}_2\text{CH}_2)_n_1-\text{OR}_8$ and
 $M_2 = \text{H}$ or alkali(ne earth) metal.

USE/ADVANTAGE

The compsn. gives a highly stable water-solvent emulsion. It prevents resoiling and gives good flexibility to wool, cotton, flax, etc. (6ppDwgNo0/0).

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